

FOLIO

THE UNIVERSITY OF ALBERTA STAFF BULLETIN



EDMONTON, ALBERTA

AUGUST 8, 1974

UNIVERSITY TO BE CENTRE FOR HYDROCARBON RESEARCH

The University of Alberta has received a grant of \$1,470,000 to establish a Hydrocarbon Research Centre in Edmonton.

The grant was made by the National Research Council of Canada (NRC) under its Negotiated Grants program. It will be spread over a five-year period, with the 1974-75 portion set at \$200,000. There also is provision for an increase in the grant during its tenure, if warranted by prevailing conditions and circumstances.

O.P. STRAUSZ, Professor of Chemistry, has been appointed Director of the Centre. Also directly involved in the Centre will be eight other University staff members: H.E. GUNNING, President and Killam Memorial Professor of Chemistry; R.J. CRAWFORD, S. MASAMUNE, and J.W. LOWN, Professors of Chemistry; D.B. ROBINSON and F.D. OTTO, Professors of Chemical Engineering; D.W.S. WESTLAKE, Professor and Chairman of Microbiology; and R.C. VON BORSTEL, Professor and Chairman of Genetics.

The Hydrocarbon Research Centre will conduct both basic and applied research aimed at the advancement of reserve exploration, processing, and upgrading of Canada's hydrocarbon resources. There will be emphasis on the problems facing the Western Canadian petroleum industry, particularly with regard to heavy crudes and oil sand deposits.

Dr. Strausz says that the sudden jump in the world market price of crude oil last fall has turned the economically marginal operation of oil production in Alberta into a commercially attractive one.

"Economy, however, is not the only factor governing the rate of large scale resource development," he says. "Among other problems there are a multitude of complex scientific, technological, and environmental questions that have to be answered in order to achieve maximum economic benefit and to minimize undesired environmental and social impact. The outstanding educational and scientific research facilities and the strategic location of The University of Alberta are eminently suitable for investigating these problems."

Dr. Strausz says the Centre will investigate the chemical composition and properties of the oil sand and the crude oil extracted from the oil bearing sand, to devise new technology

for separation and processing. Parallel investigations will be undertaken to determine the optimum conditions for fuel production and extraction of valuable chemicals and chemical feedstocks for the burgeoning petroleum industry in Western Canada.

Engineering studies will be undertaken to determine the feasibility of a novel method of oil production from the Cold Lake heavy oil formation. The Centre also plans to conduct research into microbiological transformations of crude oil using bacteria and enzymes to facilitate oil production, and the utilization of waste hydrocarbons for single cell protein production which could be used as animal feed.

"The program of the Centre," says Dr. Strausz, "will be co-ordinated with research performed in government laboratories and industry by the involvement of an advisory board comprising experts from the Canadian petroleum and petrochemical industries and government agencies. Broadening of the financial basis of the Centre is anticipated through additional grants on the part of the Alberta and federal government agencies, the private sectors, and also from patent royalties.

"Of special significance upon the establishment of this Centre will be the broadening of Canadian expertise in this vital field and, more importantly, the eventual creation of a training centre for young scientists and engineers involved in the petrochemical industry.

"The Hydrocarbon Research Centre is expected to make a significant contribution to the acquisition of the additional knowledge necessary to the development of these unique hydrocarbon resources and the petrochemical industry in Western Canada."

ANNUAL BILINGUAL PROGRAM COMPLETED

As the University's annual Summer Session comes to a close August 9, a program of a different nature will end for the year as well. Held at Collège Universitaire Saint-Jean, the course is intended to improve English usage for French-speaking students, and French usage for English-speaking ones. According to Co-Directress LILIANE MAC CALLUM, the fully bilingual nature of the program makes it unique in Canada.

Under the direction of GILLES CARDIN, the bilingual summer course is now in its fifth year. It brings together students from seven provinces and territories on an exchange basis (that is, for each student who comes here from a particular province, an Alberta student visits that province). There are two sessions each summer: the first began May 16 and ended June 26; the second began July 2. The first session attracted 78 students, largely from university; the second, comprising mainly high school students, has a total enrolment of 104. In both sessions, the vast majority of those participating in the English-speaking course were from Quebec (56 in the first session, 72 in the second), while the remainder were in the French-speaking section.

Almost all students enrolled in the program are supported by bursaries, which are given on a first-come, first-served basis. No specific selection procedures are involved—the program is advertised across the country beginning in January, and applications are approved in the order they are received.

The bilingual program apparently has more than fulfilled its goals. Professor MacCallum attributes its success to a combination of



APPOINTMENT

T.A. PETERSEN, Professor in the Department of Agricultural Economics and Rural Sociology, has been named Chairman of that department for a five-year term which commenced July 1, 1974. After graduating from The University of Alberta in 1950, Dr. Petersen accepted a position with the Alberta Department of Agriculture. He joined the staff of this University in 1963, first in the Department of Extension and later as a Professor in the department he now heads. He specialized in farm business management and agricultural extension. Dr. Petersen recently returned from a sabbatical leave in the United States, Africa, and Europe.

factors. Formal morning classes are integrated with afternoon and evening workshops of a less formal nature; these in turn are further integrated by bringing together both French and English groups. The net result, feels Professor MacCallum, is an atmosphere of hospitality and co-operation. In addition, she says, a variety of outside activities, including sightseeing, visiting, and general socializing, rounds off the program.

One indication of the program's success is the fact that many of those students who attended the May-June session remained in Edmonton to work locally and/or improve their facility in English. A benefit which accrues from the program is the general increase in knowledge of Canada by the courses' participants. "It changes the students' attitudes toward the different provinces," says Professor MacCallum. "They realize that there are differences, but that they can work together despite them. I think it's a positive step towards a national unity of sorts."

STATISTICS MEETINGS TO BE HELD HERE

The Institute of Mathematical Statistics (IMS), an international society devoted to the advancement and dissemination of knowledge in statistical theory and its applications, is holding its 1974 annual meeting in Edmonton at the invitation of The University of Alberta from August 12 to 16.

Another allied conference entitled "Directions of Mathematical Statistics" and motivated by the conviction that "the pursuit of mathematical abstraction for its own sake is a dead-end street" will be held at the

University concurrently with the IMS meeting. An international gathering of more than 250 statisticians is expected, some from overseas and others from across this continent.

All lectures and discussions will be held in Tory Lecture Theatre from 8:30 a.m. to 5:00 p.m. For further information contact K.L. MEHRA, Department of Mathematics, 432-3396.

NOTICES

ADVISORY COMMITTEE FOR SELECTION OF VICE-PRESIDENT (ACADEMIC)

The General Faculties Council Nominating Committee is seeking nominations for two members of the academic staff to be elected by General Faculties Council to serve on the Advisory Committee for Selection of Vice-President (Academic).

Those who have suggestions for nominations or who are interested in serving on the above committee should contact the Secretary of the Nominating Committee, MRS. P. CAMPBELL, 2-1 University Hall, telephone 432-4965.

THEORETICAL PHYSICS SEMINAR

PROFESSOR D. BOHM of Birkbeck College, University of London will be speaking at a theoretical physics seminar in the Department of Physics today, Thursday, August 8 at 10:30 a.m. The seminar, the topic of which is "New order in physical law" will be held in room P640 of the Physics Building.

Last week's FOLIO announced Professor Bohm as a recent visitor rather than a forthcoming one.

THIS WEEK AND NEXT

Listings must reach the Editor by 9 a.m. the Friday prior to publication. Written notification is preferred. Compiled by NORMA GUTTERIDGE, 432-4991.

8 AUGUST, THURSDAY

Graduate Students' Association

8 p.m. to 12:30 a.m. TGIT. Relax outside in the easygoing nonchalance of North Garneau or get together with your friends inside, at the near legendary Grad House. Only a dollar and a half buys beer for the entire evening. 11039 Saskatchewan Drive.

9 AUGUST, FRIDAY

Graduate Students' Association

4 to 6 p.m. and 9 p.m. to midnight. After a hard week's research, relax for the Happy Hour, 4 to 6 p.m. at the Grad House. The beer is only 35 cents, chili and submarine sandwiches are available, and the ever

congenial company is free. Help cool off the long hot summer. 11039 Saskatchewan Drive.

Faculty Club

Downstairs. TGIF—Last day of Summer Session. Barbecued ham steaks, orange sauce, sweet potato puff, spinach and bacon salad, berry cobbler. \$3.25. Entertainment by The Fashionables.

Upstairs. Regular dinner menu served 6 to 10 p.m.

Jamaica's Independence Celebration

9 to 10:30 p.m. Dancing to music by the Caribbean Ambassadors and hit records. 10:30 to 11:45 p.m. Buffet (curry, rice, and roti will be served). Films about Jamaica will be shown.

11:45 p.m. to midnight. Intermission.

12 midnight. Speech, followed by play in Jamaican talk—"Patwa." Poetry on Jamaica, music and title of poem "Island in the Sun" by MANDI LEWIS, followed by more dancing while films are shown for club atmosphere effect. Students' Union Building, Dinwoodie Lounge. Admission \$2.75 (includes food). Wear any festive costume you like. Tickets from Mike's, or at the door.

10 AUGUST, SATURDAY

Faculty Club

Downstairs. Barbecue your own at the patio grill in the lower lounge (steaks \$5.50, chicken \$3.75, hamburgers \$2.50), home style baked beans, salad bar, dessert table.

Upstairs. Regular dinner menu served 6 to 10 p.m.

16 AUGUST, FRIDAY

Faculty Club

Downstairs. TGIF—A national dish from Cuba. Picadillo, riz et pois, concombre en salade, bananas Celéste. \$3 (includes one glass of beer).

17 AUGUST, SATURDAY

Faculty Club

Downstairs. Barbecue your own at the patio grill in the lower lounge (steaks \$5.50, chicken \$3.75, hamburgers \$2.50), home style baked beans, salad bar, dessert table.

Upstairs. Fresh crab. \$8. Also regular dinner menu served 6 to 10 p.m. Entertainment by Cameron and Co. (The Faculty Club can now prepare special menus for parties if ordered before 4 p.m. the day before.)

EXHIBITIONS AND PLAYS

Edmonton Art Gallery

Through August. "European 19th and 20th century art." An outstanding exhibition of

FOLIO

THE UNIVERSITY OF ALBERTA, EDMONTON, ALBERTA

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Marcy Davies, Editor

FOLIO Policy Committee: E. D. Hodgson (Professor of Educational Administration), J. W. Carmichael (Professor of Bacteriology), and Aylmer A. Ryan (Provost and Executive Assistant to the President).

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modern masters: Renoir, Utrillo, Dufy, Chagall, and many others. Drawing and graphics by Picasso and Degas; sculpture by Rodin and Arp.

Through August. "Prairie '74, Sculpture Alberta '74, Photography Alberta '74." A broad survey of art in the Prairie Provinces.

Until 27 August. An exhibition of recent paintings by Edmonton artist RICK CHENIER.

Provincial Museum and Archives

Until 2 September. "Canadian nature art 73." The first collection of paintings, drawings, and prints by Canadian artists to be nationally exhibited.

Through 1974. "Treasures of the Orient," a valuable collection of Japanese and Chinese ceremonial objects dating from as early as the eleventh century B.C.

Alberta Barter Theatre

8, 9, 10, 13, 14, 15, 16, and 17 August. Curtain time: 9 p.m. The last play of the season is *The Three Cuckolds*, directed by RICK ROBERTS and designed by DOUG WELCH. Outdoor theatre at Corbett Hall. Admission is whatever you can afford. \$1.50 is suggested.

Botanic Garden and Field Laboratory

The Botanic Garden and Field Laboratory is open to the public every Saturday, Sunday, and public holiday between the hours of 1 and 6 p.m. It is located six miles west on Highway 16 and then nine miles south on Highway 60 (three miles north of Devon). The north gate should be used. The following bulbous and herbaceous plants are normally in flower at this time of year: *Aster*; *Eryngium* (sea holly); *Lythrum*; *Coronilla* (crown vetch); *Hemerocallis* (day lily); *Gladiolus*; *Aconitum* (monk's hood); *Cimicifuga*.

GRADUATE SCHOLARSHIPS AND AWARDS

Notices regarding other awards and scholarships are posted on the bulletin board in the rotunda of the Administration Building. All enquiries should be directed to L. HENDERSON, Administrator of Student Awards, 122 Administration Building, telephone 432-3495.

THE ROYAL SOCIETY COMMONWEALTH BURSARIES SCHEME
Applications are invited for awards to enable scientists of proven ability (generally of several years post-doctoral experience) to increase their competence by working with scientists of a Commonwealth country other than their own, where the physical or personal environment is peculiarly favorable. The bursaries allow such scientists to pursue research, learn techniques, or follow other forms of study in the natural and applied sciences, especially in agriculture,

fisheries, forestry, and the development of natural resources.

Applicants are expected to occupy permanent salaried posts to which they will return at the end of the visit, normally 6 to 12 months. Study towards higher degrees or diplomas is specifically excluded. Bursaries may provide for travel and an allowance towards maintenance at an average rate of £100 per month depending on the applicant's circumstances and living costs in the country to be visited. No specific provisions are made for families.

Application forms and copies of the detailed regulations may be obtained from the Executive Secretary, The Royal Society, 6 Carlton House Terrace, London, SW1Y 5AG, to whom completed forms should be returned to arrive before March 15 each year for proposed visits commencing in July of the same year, or before September 15 for proposed visits beginning in January of the following year.

RHODES UNIVERSITY, GRAHAMSTOWN, SOUTH AFRICA HUGH KELLY FELLOWSHIP

Applications for the Fellowship are invited for the year 1975-76. It is awarded in alternate years to enable senior scientists to devote themselves to advanced work in any of the following departments: Botany, Chemistry, Geography, Geology, Mathematical Statistics, Mathematics (applied, including Computer Science), Mathematics (pure), Microbiology, Pharmaceutical Sciences, Physics, Psychology, Zoology and Entomology. Closely associated with a number of these departments are the Leather Industries Research Institute, the Institute for Freshwater Studies, and the J.L.B. Smith Institute of Ichthyology.

The value of the Fellowship is R4,000 plus the cost of return tourist fare. The Fellow shall reside in Grahamstown for the period of his Fellowship, which shall be at least two academic terms. Further details may be obtained from The Registrar, Rhodes University, Grahamstown 6140, South Africa. The closing date is October 31, 1974.

PERSONAL NOTICES

All advertisements must be received by 9 a.m. the Friday prior to publication. Rate is 10 cents per word for the first week, and 5 cents per word for subsequent weeks ordered before the next deadline. Minimum charge is \$1. ADS MUST BE PAID IN ADVANCE. We regret that no ads can be taken over the telephone. For order forms or further information, telephone 432-4991.

Accommodation available

TO SUBLLET—September 1 - April 30, one-bedroom furnished suite close to bus. \$150/month. 469-0907.

FOR RENT—Furnished basement suite near campus.

Bedroom, living room, kitchen with fridge and stove, bathroom, and den or second bedroom. Available August 6, \$130/month plus utilities. Couples preferred. 432-3637, evenings 439-4698.

YOUR DREAM HOME—Custom built 1,530 square feet of luxurious living, two open fireplaces, patio doors off kitchen, high quality broadloom throughout, attached single front-drive garage, many extras, Backs onto wooded area and golf course. Telephone Dale, 469-7894 or 425-9915. Country and Western Realty Ltd.

HILLSIDE PLAZA APARTMENT HOTEL—Furnished accommodation monthly, weekly, or daily, with full kitchen, dishes, color TV, maid service, 24-hour phones and ample parking. 9730 106 Street, Edmonton; 429-3353.

FOR SALE BY OWNER—Greenfield-Petrolia 1,316 square feet Perry-built three-bedroom bungalow in excellent

condition. Fireplace, garage, patio doors to raised balcony, large windows, many extras. Asking \$52,900. Principals only. Telephone 434-5352.

FOR SALE—Belgravia, semi-bungalow: 3 bedrooms, dining room, developed basement; fenced, landscaped, garage. 436-0941.

FOR RENT—Furnished two-bedroom bungalow, Bonnie Doon, from September 1 for nine months. \$180. Telephone 469-1969 weekends only after August 18.

FOR SALE—Walking distance University, sunny, spacious three-bedroom, Cape Cod style home.

1½ baths. Utilities main floor. Finished basement, well-developed garden. Garage. 433-8519 evenings.

FOR SALE—Lansdowne, gracious executive two-storey home with double front-drive garage, located just off Lansdowne Drive. An excellent family home featuring four bedrooms, three baths, large main-floor family room with fireplace and patio doors, main floor utility room, and superb landscaping. Priced at \$82,000, with very large first mortgage at 9½ per cent. See it now by calling Shirley Way-Nee, Potter Realty, residence 435-6032; office 436-3050.

HEALTH IS BIG—Validus Aptus, owner of HUB and Boardwalk Health Food stores, is for sale. Contact Chris Janssen of Franklin RE, 435-2606, or visit the stores.

FOR SALE—Attractively located seven-room split-level with large carpeted family room, in quiet residential area. Overlooking University Farm; convenient to campus, schools, and shopping. Telephone Chris Janssen, Franklin RE, 435-2606. EXCHANGE comfortably furnished modest home from November to April for similar house/suite in Victoria. Married couple preferred. References. (403) 454-7210.

SUBLLET—Bachelor, Newton Place, to end of May 1975, \$137. Annmarie, 432-4439.

FOR SALE—Malmo Plains, deluxe three-bedroom, 1,285 square foot bungalow, 1½ bathrooms, huge family room with fireplace, front drive garage, large well developed lot, close to University, schools, recreation, and Southgate. Telephone 434-5198.

TO SUBLLET—Spacious two-bedroom apartment, College Plaza. Unfurnished. \$220/month. September-December inclusive. 432-3045.

FOR SALE—Three-bedroom bungalow, fully developed basement, double garage, quiet crescent near University, auditorium. 11735 84 Avenue. Telephone 435-3295, 436-2360.

FOR SALE BY OWNER—Belgravia on Saskatchewan Drive with mature trees and view of park. Five bedrooms, three bathrooms, two fireplaces. \$82,000. 436-1945.

FOR SALE BY OWNER—Lansdowne Drive, ravine view, four bedrooms, study, sauna, family room, laundry, two fireplaces. After 7 p.m. 434-7991.

FOR SALE BY OWNER—Immaculate three-bedroom bungalow in Laurier Heights. New broadloom throughout; extra large, well landscaped yard, 20-foot trees. Six minutes to University by car or express bus. Best offer over \$40,000. 482-2754.

FOR SALE—Comfortable three-bedroom bungalow in Belgravia. Two additional bedrooms and recreation room in basement, double garage, mature landscaping. Close to schools, bus; within walking distance of University. 11650 72 Avenue. 436-0572.

Accommodation wanted

WANTED TO RENT—Two-bedroom house on acreage within 20 miles of Edmonton. September 1 or earlier. Telephone 467-3287.

Automobiles and accessories

FOR SALE—1966 Valiant four-door sedan, \$300. 432-5006 days; 484-3479 evenings.

1972 Plymouth Grande Sedan, factory air, just about all the options possible with new Pirelli radial tires—

body in perfect shape, golden color. New car arrived, must sell, \$3,400. 429-7980.
FOR SALE—1973 Ford Courier ½-ton pickup with shell, \$2,950. 435-1656.
FOR SALE—1967 Dodge Polara; 55,000 miles; slant-6 motor; good condition. \$750. 434-7812.
FOR SALE—1965 Chev, 6-cylinder, 232, automatic. Mechanically good, body fair, offers over \$275. Eddington, 488-3201.
FOR SALE—1971 Volkswagen 9-passenger window van. Good shape, great for camping. Must sell immediately, offers. 434-2605.

Goods and services

FOR SALE—German Braun receiver, \$325; Optimus 5 speakers, \$90 each; ARax turntable, \$90; 12" color TV, \$150; slide projector and screen, \$75; chesterfield and chair, \$80; rocking chair, \$45; dressers, lamps, tables, etc. 433-7982 evenings.
PLUMBING—**FOR FREE ESTIMATES** on basement bathrooms, repairs, alterations etc. call 465-7079 anytime.
TYPING DONE—Fast, efficient service. Georgina Campbell, 489-4810 evenings.
ANTIQUES from England. Furniture, porcelain, glass. Horsehill Hall, 2 miles past Alberta Hospital on Fort Road. 1 to 6 p.m. daily including weekends, closed Monday. Mary Goulden 799-3656, 475-8089.
HUB BEAUTY CENTRE—Open Monday through Saturday, 11 a.m. to 6 p.m. Special on haircuts. HUB mall. 433-0240.
THINKING OF GOING AWAY FOR CHRISTMAS? Whether to Europe for skiing, sun fun in Hawaii or Mexico, or visiting families in Canada or the U.S., reservations should be made now. It's never too early to book—but if you wait, it may be too late. Call IRIS ROSEN at 488-8181.
FOR SALE—Community Drug Store available with minimum down payment. Total purchase price is only the cost of fixtures and stock. Owner will carry mortgage and train new management. A real opportunity—don't miss it! Jim Oldrive 452-5850, residence; 482-3594, Spencer Real Estate Ltd.
GARAGE SALE—August 12-13. North Windsor Park, 9314 Edinboro Road. Mostly household goods.
FOR SALE—Minox C Automatic Exposure miniature camera with case and chain. \$300. Call 488-5137 mornings or late evenings.
WANTED—1964 to 1966 inclusive, back issues of *Scientific American*. Telephone Kay, 432-4758.
FOR SALE—Single bed, \$50; b/w TV, \$65; Time-Life *Great Ages of Man*, each \$5. Annmarie, 432-4459.

POSITIONS VACANT

ACADEMIC STAFF

DEPARTMENT OF SURGERY

ADMINISTRATIVE OFFICER

Applicants are invited to send details of pertinent experience and curriculum vitae to R.A. MAC BETH, Chairman, Department of Surgery, 11-105 Clinical Sciences Building, The University of Alberta.

DEPARTMENT OF STUDENT AFFAIRS FOREIGN STUDENT ADVISER

Applications are being accepted for the position of Foreign Student Adviser (Administrative/Professional Officer I). Applicants should have a good knowledge of the University, University administration, and the local community. It is desirable that the applicant should have had the experience of living in a foreign country. Applications and curriculum vitae should be submitted before August 31 to R.C.W. HOOPER, Dean of Men and Foreign Student Adviser, 2-5 University Hall, telephone 432-3483.

NON-ACADEMIC STAFF

Applicants are sought for the following positions. The Office of Personnel Services and Staff Relations (121 Administration Building) will provide further details to interested persons, who are not to approach directly the department advertising the vacancy.

Sales Clerk (\$346-\$441)—Bookstore
Clerk Typist I (\$346-\$441)—University Health Service; Physics; Printing
Clerk Typist II (\$379-\$485)—Central Stores; Forest Science; Extension; Parking Office; Office of the Comptroller; Business Administration and Commerce; Mechanical Engineering; Purchasing (2 positions); Psychology; Pharmacy; School of Library Science
Clerk Typist II (half-time) (\$379-\$485)—Biomedical Engineering
Clerk Typist III (\$441-\$560)—Bookstore; Introductory Biology Program; Microbiology
Clerk Steno I (\$362-\$461)—Extension—Educational Media
Clerk Steno II (half-time) (\$180-\$230)—Elementary Education
Clerk Steno II (\$398-\$508)—Field Experiences; Secondary Education; Technical Services
Clerk Steno III (\$461-\$587)—Biochemistry; Business Administration and Commerce; Psychiatry; Chemical Engineering (2 positions); Zoology; Chemistry (2 positions); Paediatrics; Medicine; Mineral Engineering
Clerk Steno III (term) (\$461-\$587)—Radiation Control Committee
Clerk Steno III (part-time) (\$230-\$296)—Surgery
Secretary (\$534-\$682)—CITV
Bookkeeper I (\$379-\$485)—Physiology; Surgical Medical Research Institute; Drama
Bookkeeper II (\$461-\$587)—Physical Plant
Payroll Clerk I (\$379-\$485)—Office of the Comptroller
Administrative Clerk (\$560-\$715)—Business Administration and Commerce; Sociology
Dental Records Clerk (\$398-\$508)—Dentistry
Time Table Scheduling Clerk (\$441-\$560)—Office of the Registrar
Public Relations Assistant II (\$648-\$827)—Public Relations
Student Record Processing Clerk (\$485-\$617)—Office of the Registrar
Senior Clerk (\$441-\$560)—Physical Plant
Dental Assistant (\$419-\$534)—Dentistry
Laboratory Assistant III (\$485-\$617)—Civil Engineering
Electronics Technician I (\$587-\$750)—Chemistry
Graphics Assistant II (\$379-\$485)—Education Curriculum Laboratory
Maintenance Worker I (part-time) (\$4.10/hour)—Faculty of Science
Biochemistry Technician II (\$648-\$827)—Pathology
Technologist I (trust) (\$648-\$827)—Cancer Research Unit
Technician I (\$560-\$715)—Drama
Computer Operator I (\$587-\$750)—Computing Services
Electronics Technician II or III (\$682-\$869)—Technical Services
Storeman II (\$534-\$682)—Chemistry; Introductory Biology Program; Pathology
Accounts Clerk III (\$648-\$827)—Printing Services (Art) Technologist II (\$750-\$958)—Household Economics
Technical Assistant (\$485-\$617)—Introductory Biology Program
Programmer III (\$750-\$958)—Administrative Systems
Mail Clerk (\$346-\$441)—Chemistry
Laboratory Technician I (\$560-\$715)—Mechanical Engineering
Applications Analyst (\$750-\$958)—Chemical Engineering
Stockman I and II (\$441-\$682)—Central Stores (3 positions)
Laboratory Assistant I (\$346-\$441)—Genetics

Press Operator or Operator Trainee (dependent upon experience)—Duplicating
Audiovisual Assistant (term) (\$441-\$560)—Health Sciences

Administrative Assistant (\$750-\$958)—Soil Science; Civil Engineering

OFF-CAMPUS POSITIONS

SPIRIT RIVER SEPARATE SCHOOL BOARD,

PEACE RIVER DISTRICT,

TEACHER REQUIRED

Applications are invited for this position which involves teaching homeroom-grades 5 and 6 subjects, mainly mathematics and science; and grades 5 to 8, physical education. Those interested should contact MICHAEL DORVAL, 3738 45 Street, Red Deer, telephone 1-347-4150.

THE AUSTRALIAN NATIONAL UNIVERSITY, CANBERRA

Professorial Fellowship: Department of Neurobiology. Applicants should be capable of a strong research program in an aspect of neurobiology complementary or supplementary to (a) mechanisms of arthropod vision; (b) growth and regeneration of insect nerves; (c) control of movement in crustaceans; (d) biochemistry of insect neurons; (e) insect sound production and hearing; (f) establishment of connections between nerve cells. This is a tenured position, with opportunity to train graduate students. *Closing date:* September 21, 1974.

Senior Research Fellow, Fellow, or Senior Fellow in Physical Biochemistry: John Curtin School of Medical Research; Department of Physical Biochemistry. Applicants should be interested in setting up a small research group to carry out theoretical and experimental studies involving biological macromolecules or systems. *Closing date:* October 21, 1974.

Research Fellow in Pacific History, Research School of Pacific Studies. Normal tenure for this position is three years with a possibility of extension to five. Applications will be welcomed from scholars who, on leave from tenured teaching positions, seek to complete a project in, say, two years. Research Fellows should have at least a PhD or equivalent publications. Information about this post may be obtained from D.A. SCARR. *Closing date:* September 2, 1974.

Salary for a Professorial Fellow is \$A18,131 per annum: the other posts are in the ranges Senior Fellow \$A14,724 - \$A16,921; Fellow \$A10,771 - \$A14,704; Senior Research Fellow \$A13,163 - \$A15,548; Research Fellow \$A9,002 - \$A12,269, all plus benefits. N.B. At the current rate of exchange \$A1 equals approximately \$1.51 Canadian.

UNIVERSITY OF NATAL, SOUTH AFRICA

INSTITUTE FOR SOCIAL RESEARCH: SENIOR RESEARCH FELLOW

Applications are invited for this permanent post carrying Senior Lecturer status. Applicants must be highly qualified in one or more of the social sciences, be of proven research ability, and have had experience in teaching, organizing, and administration. It is hoped that the appointee will take an active part in teaching his or her subject at undergraduate and postgraduate levels and for this purpose might be attached to one of the teaching departments. The successful candidate will be expected to assume duty as soon as possible. The salary scale is R6,600 x 300 - R8,100 per annum, plus a pensionable allowance of 15 percent. The scale is due for revision soon. Application forms and further information may be obtained from the Registrar, University of Natal, King George V Avenue, Durban, South Africa. *Closing date:* October 31, 1974. N.B. At the current rate of exchange, R1 equals approximately \$1.50 Canadian.